SPECIFICATIONS MQTD412

DESCRIPTION

A unique 2 way bass system employing Tuned Dipolar Array Technology. Includes 2x 12" Woofers (vented) and 2x 8" woofers (sealed) in a trapezoidal enclosure.

APPLICATION

The MQTD412 uses patented Tuned Dipolar Array (TDA) Technology to achieve unprecedented LF directivity in the vertical plane without enormous horns or baffles. The compact, high output LF system works with MQ Series mid/high modules to create true 3-way arrays in large format installations. A powerful tool where LF directivity is required. Six year warranty.

Applications include:

Stadiums
Arenas
Dance Clubs
Large Theaters
Large Houses of Worship

PERFORMANCE

Frequency Response (1 Watt @ 1m)	
±3 dB	58 Hz to 500 Hz
-10 dB	48 Hz
Axial Sensitivity (dB SPL, 1 Watt @ 1m)	
12-in	101
8-in	101
Impedance (Ohms)	
12-in	2x 8
8-in	2x 12
Power Handling, AES Standard (Watts)	
12-in	1000
8-in	400
Calculated Maximum Output (dB SPL)	
12-in Peak	137.0
8-in Peak	133.0
12-in Long Term	131.0
8-in Long Term	127.0
90 Degreee Off -Axis Rejection	
Vertical	10-12dB Attenuation 160-500 Hz

PHYSICAL

LF Subsystem	2x 12-in, vented 2x 8-in, sealed
Configuration	Dedicated LF tuned dipolar array
Powering Mode	Bi-amplified
Cabinet Type (shape)	Trapezoidal
Enclosure Materials	Baltic birch plywood
Finish	Wear-resistant textured black paint
Connectors	2x 4-Terminal barrier strip
Suspension Hardware	(16) 3/8"-16 threaded mounting points (4 each top, bottom, and sides)
Grille	Powder coated perforated steel

Dimensions	**inches**	**millimeters**
Height	40.00	1016
Width (front)	24.0	610
Width (rear)	12.75	324
Depth	21.0	533
Trapezoid Angle	15°	

Weights	**pounds**	**kilograms**
Net Weight	150	68.0
Shipping Weight	162	73.5

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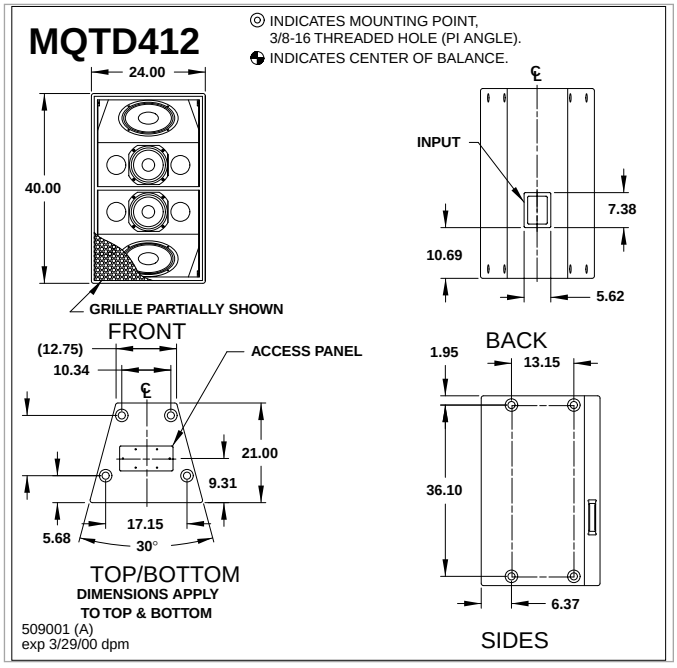
SPECIFICATIONS MQTD412

DIMENSIONAL DRAWING



Manufacturing tolerances are +/- 0.13 and +/- 1°

A & E SPECIFICATIONS

The low frequency loudspeaker systems shall incorporate 2x 12-in plus 2x 8-in LF transducers. Each driver pair shall be spaced so as to create a tuned dipolar array. The driver pairs shall require an active crossover at 250 Hz, 24 dB/octave. The system shall provide 10-12 dB attenuation 90° off axis (v) from 160 Hz to 500 Hz.

System frequency response shall vary no more than ±3 dB from 58 Hz to 500 Hz measured on axis. The 12-in driver pair shall produce a Sound Pressure Level (SPL) of 101 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 137 SPL on axis at 1 meter. The 12-in driver pair shall handle 1000 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 2x 8 Ohms.

The 8-in driver pair shall produce a Sound Pressure Level (SPL) of 101 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 133 SPL on axis at 1 meter. The 8-in driver pair shall handle 400 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 2x 12 Ohms.

The loudspeaker enclosure shall be trapezoidal in shape. It shall be constructed of 1/2-in thickness void-free cross-grain-laminated Baltic birch plywood and shall employ extensive internal bracing. It shall be finished in wear-resistant textured black paint. Input connectors shall be dual four-terminal barrier strips. A total of sixteen 3/8"-16 Threaded Mounting Points (4 each top, bottom, and sides) shall be provided. The front of the loudspeaker shall be covered with a powder coated perforated steel grille.

The low frequency loudspeaker shall be the EAW model MQTD412.

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